

**Submission of Indicated New York Transmission
Owners
For Authority to Construct and Operate Electric
Transmission Facilities in Multiple Counties in
New York**

Case 13-M-0457

Pre-Filed Direct Testimony

*Oakdale to Fraser 345 kV Transmission Line
and
Edic to New Scotland
345 kV Transmission Line
and
Knickerbocker to Pleasant Valley
345 kV Transmission Line Project
(O-F/ED-PV)*

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DIRECT TESTIMONY OF

JAMES R. BUNYAN

ON BEHALF OF

**NIAGARA MOHAWK POWER CORPORATION D/B/A
NATIONAL GRID**

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is James R. Bunyan. I am employed by Niagara Mohawk Corporation
3. d/b/a National Grid. My business address is 1125 Broadway, Albany, New York
4. 12204-2505.
5. **Q. In what capacity are you employed?**
6. **A.** Principal Project Manager.
7. **Q. Please summarize your education and professional background.**
8. **A.** I received a Bachelor of Science degree from Clarkson College of Technology in
9. 1973. I also received a Master's Degree in Business Administration from Syracuse
10. University in 1979 and a Senior Nuclear Reactor Operation Certification (BWR5) in
11. 1992. I have been employed by Niagara Mohawk since 1979.
12. **Q. Please describe your role in the Edic to New Scotland and New Scotland to**
13. **Pleasant Valley component(s) of the Project.**
14. **A.** I am the Project Manager.
15. **Q. What portion(s) of the Application do you sponsor?**
16. **A.** I sponsor Exhibit 1 (General Information Regarding Application) and Exhibit E-4
17. (Engineering Justification), which were prepared under my supervision and direction.
18. **Q. Does this conclude your testimony?**
19. **A.** Yes.

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**DIRECT TESTIMONY OF
PHYLLIS WALL
ON BEHALF OF
NIAGARA MOHAWK POWER CORPORATION D/B/A
NATIONAL GRID**

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Phyllis Wall. I am employed by National Grid USA Service
3. Company. My business address is 40 Sylvan Road, Waltham, MA 02451.
4. **Q. In what capacity are you employed?**
5. **A.** I am a Transmission Engineer.
6. **Q. Please summarize your education and professional background.**
7. **A.** I received a Bachelor of Science degree in Civil and Environmental Engineering
8. from Worcester Polytechnic Institute in May, 2009 and a Certificate in Engineering
9. Leadership from the Gordon Engineering Leadership Program in August, 2014. I am
10. currently pursuing a Master of Science degree in Geotechnical Engineering from
11. Northeastern University. Since 2009, I have been employed by National Grid, first as
12. an Associate Engineer, then as an Engineer in the Transmission Engineering
13. Department. Work assignments during my career at National Grid have concentrated
14. *mostly on the design and maintenance of transmission and sub-transmission line*
15. *projects* for load growth and asset condition. Generally speaking, my experience
16. involves routes analysis, conceptual through detailed engineering, construction
17. support and the management of consulting engineering firms.
18. **Q. Please describe your role in the Edic to New Scotland and New Scotland to**
19. **Pleasant Valley component(s) of the Project.**
20. **A.** My role in the Project is as National Grid's transmission engineering
21. representative on the Project team with the responsibility to guide the consulting firm
22. hired to support transmission engineering so that they perform effectively. I provide
23. guidance about National Grid standards, procedures and engineering best practices.
24. **Q. What portion(s) of the Application do you sponsor?**
25. **A.** I sponsor those portions of the following exhibits, that were prepared by me or
26. under my supervision and direction: Exhibit 2 (Location of Facilities); Exhibit 5
27. (Design Drawings); and ExhibitE-1 (Description of Proposed Transmission Line).
28. **Q. Does this conclude your testimony?**
29. **A.** Yes.

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DIRECT TESTIMONY OF

PAUL WILLIAMS

ON BEHALF OF

**NIAGARA MOHAWK POWER CORPORATION D/B/A
NATIONAL GRID**

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Paul Williams. I am an employee of Burns & McDonnell. My
3. business address is 9400 Ward Parkway, Kansas City, MO 64114.
4. **Q. In what capacity are you employed?**
5. **A.** I am a Project Manager in the Transmission and Distribution Group.
6. **Q. Please summarize your education and professional background.**
7. **A.** I received a Bachelor of Science degree in Electrical Engineering from Gonzaga
8. University in 1999. For the last 15 years I have continuously worked as a consultant
9. supporting transmission and distribution projects, both as a project manager and a
10. design engineer. My experience includes transmission lines studies and evaluations,
11. cost estimates, engineering design, project management, permitting and land
12. acquisition support, contract specifications, procurement, and construction support.
13. **Q. Please describe your role in the Edic to New Scotland and New Scotland to**
14. **Pleasant Valley component(s) of the Project.**
15. **A.** I am the transmission engineering manager for Burns & McDonnell on the
16. Project, I manage and supervise the engineering support required for the Project.
17. **Q. What portion(s) of the Application do you sponsor?**
18. **A.** I sponsor those portions of the following exhibits that were prepared by me
19. or under my supervision and direction: Exhibit 5 (Design Drawings) and Exhibit E-1
20. (Description of the Proposed Transmission Line).
21. **Q. Does this conclude your testimony?**
22. **A.** Yes.

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DIRECT TESTIMONY OF

CRAIG WOLFGANG

ON BEHALF OF

**NIAGARA MOHAWK POWER CORPORATION D/B/A
NATIONAL GRID**

1. **Q. Please state your full name, employer, and business address.**

2. **A.** My name is Craig Wolfgang. I am employed by Tetra Tech, Inc. My
3. business address is 1000 The American Road, Morris Plains, NJ 07950.

4. **Q. In what capacity are you employed?**

5. **A.** I am the Vice President of Energy Projects in the Tetra Tech Morris Plains office and
6. serve as Project Manager for various electric transmission projects.

7. **Q. Please summarize your education and professional background.**

8. **A.** I received a Master of City Planning from the Georgia Institute of Technology in
9. 1979, and a Bachelor of Science in Natural Resource Conservation from the
10. University of Connecticut in 1976.

11. I have more than 30 years of professional experience as a Project Manager and
12. Environmental Planner on a variety of development and infrastructure improvement
13. projects. I have served in my present position since February 2008. My work has
14. involved overseeing permitting and environmental analyses for proposed electric
15. generation, electric transmission and natural gas pipeline projects. In addition, I have
16. managed permitting and environmental analyses for numerous transportation and
17. resource assessment and planning projects.

18. Prior to joining Tetra Tech, from 1999 to 2008 I was Manager of Environmental
19. Planning for TRC Corporation, and from 1994 to 1999, I was a Principal Planner at
20. Louis Berger & Associates, Inc. From 1986 to 1994, I was Supervisor of Resources
21. Planning at Ebasco Environmental. From 1983 to 1986, I was a Licensing Specialist
22. at the New York Power Authority. From 1980 to 1983, I was an Environmental
23. Planner at Claude Terry & Associates.

24. **Q. Please describe your role in the Edic to New Scotland and New Scotland to
25. Pleasant Valley component(s) of the Project.**

26. **A.** I served as Tetra Tech's Project Manager for the Article VII Application,
27. responsible for the supervision of the Tetra Tech project team with regard to
28. environmental studies and the preparation of the environmental analyses
29. required as part of the Application.

30. **Q. What portion(s) of the Application do you sponsor?**

31. **A.** I sponsor the following exhibits, which were prepared by me or under my

32. supervision and direction: Exhibit 2 (Location of Facility) and Exhibit 7 (Local
33. Ordinances - Zoning and Flood Maps).
34. **Q. Does this conclude your testimony?**
35. **A.** Yes.

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**DIRECT TESTIMONY OF
ANTONIO FUENTES BARRIENTOS
ON BEHALF OF
NEW YORK STATE ELECTRIC & GAS CORPORATION**

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Antonio Fuentes Barrientos. I am currently employed by New York
3. State Electric & Gas Corporation. My business address is 18 Link Drive, P.O. Box
4. 5224, Binghamton, NY 13902-5224.
5. **Q. In what capacity are you currently employed?**
6. **A.** Manager – Programs/Projects.
7. **Q. Please summarize your educational background and professional experience.**
8. **A.** I earned a Bachelor of Science degree from Extremadura University, Spain in
9. Electrical Engineering in 2001. I am a certified project manager with a Project
10. Management Professional (PMP) credential from Project Management Institute. I
11. have worked at NYSEG as Manager- Programs/Projects since December 2014. Prior
12. to that I was employed by Iberdrola Energy Projects as project manager for 2.5 years.
13. Since 2000 I have worked in the electric utility industry across Europe and in the
14. U.S.A. in engineering, construction management and project management roles.
15. **Q. Please describe your role in the Oakdale to Fraser 345 kV Transmission Line**
16. **component of the Project.**
17. **A.** I am the Project Manager.
18. **Q. What portion(s) of the Application does your testimony support?**
19. **A.** Exhibit 1 (General Information Regarding the Application).
20. **Q. Does this conclude your testimony?**
21. **A.** Yes.

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DIRECT TESTIMONY OF

CAROL HOWLAND

ON BEHALF OF

NEW YORK STATE ELECTRIC & GAS CORPORATION

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Carol Howland. I am employed by New York State Electric & Gas
3. Corporation. My business address is 18 Link Drive, P.O. Box 5224, Binghamton,
4. NY 13902-5224.
5. **Q. In what capacity are you employed?**
6. **A.** I am the Manager, – Environmental, Programs/Projects for
7. Iberdrola, USA.
8. **Q. Please summarize your education and professional background.**
9. **A.** I received an Associates of Science degree in Chemistry from Broome
10. Community College and a Bachelor of Science degree in Chemistry from
11. Binghamton University. I am a Certified Professional in Erosion and Sediment
12. Control (CPESC), and a licensed Professional Engineer (PE) in the State of New
13. York. I have more than 28 years of professional experience in environmental and
14. licensing for utility projects. My work has involved overseeing environmental
15. analyses and permitting for coal generation facilities, hydroelectric projects, electric
16. transmission lines, gas pipelines, and substation projects. I have also served as the
17. environmental monitor and stormwater inspector for utility construction projects.
18. **Q. Please describe your role in the Oakdale to Fraser 345 kV Transmission**
19. **Line component of the Project.**
20. **A.** For the Oakdale to Fraser Component of the O-F/ED-PV
21. Project, I have advised NYSEG’s consultant on environmental regulatory
22. requirements, consulted with the environmental agencies, and have reviewed the
23. routing analysis, draft exhibits, and conceptual drawings prepared by NYSEG’s
24. consultants, including checking them for consistency with NYSEG’s standard
25. practice.
26. **Q. What portion(s) of the Application do you sponsor?**
27. **A.** I sponsor Exhibit 2 (Location of Facilities) and Exhibit 7 (Local Ordinances –
28. Zoning
29. and Flood Maps), which were prepared by me or under my supervision and direction.
30. **Q. Does this conclude your testimony?**
31. **A.** Yes.

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DIRECT TESTIMONY OF

CARLOS SABBAGH

ON BEHALF OF

NEW YORK STATE ELECTRIC & GAS CORPORATION

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Carlos Sabbagh. I am currently employed by Iberdrola USA. My
3. business address is 1300 Scottsville Rd, Rochester, NY 14624.
4. **Q. In what capacity are you employed?**
5. **A.** Lead Engineer-Electric System Engineering
6. **Q. Please summarize your education and professional background.**
7. I am a graduate of National Polytechnic Institute, Mexico as a Civil Engineer. I
8. earned a Master of Project Management degree at ESDEN, Spain. I have been
9. employed by Iberdrola USA for more than 10 years, and have been employed in the
10. Network Projects Division of various utility companies, mainly for high voltage
11. transmission projects, since 1998. I have over 15 years of experience working as an
12. engineer in the utility industry in the United States, Africa, South America and
13. Europe.
14. **Q. Please describe your role in the Oakdale to Fraser 345 kV Transmission Line**
15. **component of the Project.**
16. **A.** I am the Lead Engineer of the transmission line.
17. **Q. What portion(s) of the Application do you sponsor?**
18. **A.** I sponsor portions of Exhibit 5 (Design Drawings) and Exhibit E-1 (Description
19. of Proposed Transmission Facilities) pertaining to the Oakdale to Fraser Component
20. of the O-F/ED-PV Project, which were prepared by me or under my supervision and
21. direction.
22. **Q. Does this conclude your testimony?**
23. **A.** Yes.

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DIRECT TESTIMONY OF

TIMOTHY J. LYNCH

ON BEHALF OF

NEW YORK STATE ELECTRIC & GAS CORPORATION

1. **Q. Please state your full name, employer, and business address.**
2. **A.** My name is Timothy J. Lynch. I am employed by New York State Electric & Gas
3. Corporation. My business address is 18 Link Drive, P.O. Box 5224, Binghamton,
4. NY 13902-5224.
5. **Q. In what capacity are you employed?**
6. **A.** I am the Manager – System Planning for NYSEG/RGE - Iberdrola, USA.
7. **Q. Please summarize your education and professional background.**
8. **A.** I graduated from Worcester Polytechnic Institute in 1987 with a Bachelor of
9. Science degree in Electrical Engineering, Power Systems Emphasis. In 1993, I
10. became a Certified Intern Engineer, as designated by the University of the State of
11. New York Education Department. I have more than 26 years of professional
12. experience in utility engineering and planning. My work includes overseeing
13. transmission system planning analyses and project scoping for electric transmission
14. lines and substation projects.
15. **Q. Please describe your role in the Oakdale to Fraser 345 kV Transmission Line**
16. **component of the Project.**
17. **A.** As NYSEG’s system planning manager, I reviewed the Engineering Justification,
18. Exhibit E-4, prepared by outside consultants as well as source documents “STARS
19. Phase II Study Report” and “NYTO Response to the New York State Energy
20. Highway Request for Information” with respect to the Oakdale to Fraser Component
21. of the O-F/ED-PV Project.
22. **Q. What portion(s) of the Application do you sponsor?**
23. **A.** I sponsor the portion of the Application concerning the engineering justification
24. for the Oakdale to Fraser Component of the O-F/ED-PV Project, Exhibit E-4
25. (Engineering Justification).
26. **Q. Does this conclude your testimony?**
27. **A.** Yes.
